



President Compton Welcomes Freshmen at Monday Meeting

Importance of Applied Science
in Relieving Depression
is Emphasized

MANY ATTEND ASSEMBLY

"Applied science is not an end in itself, but is the most powerful means ever discovered for supplying the opportunity to secure the finest things of life," Pres. Karl T. Compton told members of the Class of 1935 at a mass meeting of freshmen at the Institute Monday afternoon.

Speaking of the present unsettled conditions, President Compton said, "We are just now in a time of uncertainty. Everyone is wondering what is ahead of us, and just what is desirable, how it can be attained and who will take the lead. In discussing our future outlook, the internationally known historian of Columbia University, Prof. James T. Shotwell, recently made this significant statement: '... whatever theory one may adopt as to the ultimate outcome, the pathway to the future is in the hands of the engineer, not

(Continued on Page Three)

Pre-Season Practice of Gym Team Begins Another Year's Grind

Coach Neudorf Urges Freshmen
to Substitute Gymnastic
Work for P. T.

In response to Coach Hans Neudorf's call for gym team men, several applicants have made their appearance in the Walker Gym.

Although the season has not yet officially started, the candidates are at liberty to practise on the apparatus of the gymnasium on the third floor of Walker Memorial. Gym is a winter sport, consisting of six different divisions: rope climb, parallel bars, high bar, tumbling, side horse, and flying rings.

Freshmen Need No Experience
Coach Neudorf urges all freshmen who are interested to come out for this sport; no previous experience is needed. The apparatus is open to all corners, and coaching and assistance will be given the new men by the coach and the members of the varsity team. All freshmen who would like to substitute a body-building, healthful sport for the required physical training classes should come out and report on the Gym floor at four o'clock, to either Manager Calvin Mohr or Assistant Manager Robert Elliott.

Most Varsity Men Back

All of last year's varsity men are back, with the exception of Knapp, captain of last year's team. This winter his place will be taken by Ericson. Abbott, who took third place in tumbling in the Eastern Intercollegiates, is also back, together with Getting (side horse and high bar), Freeman (high bar), Lawsine (side horse and rings), Treadwell (rings and high bar), Rosen (rings), Barnett (rope climb), and Ericson (rope climb).

New Surfaces Glisten on Alleys and Tables

Bowlers! pool players! billiard sharks! Eddie Pung has made a grand investment in this year of depression by smoothing out the bumps and crooks in the bowling alleys, re-covering both the pool and the billiard tables, and purchasing new billiard balls. The alleys look entirely different in their stripped condition after a complete scraping and sanding, which was followed by four coats of varnish. New mats have been installed, and even the gutters have the glossy finish of fresh varnish.

Blonde Secretary of T.C.A. Weds Brown Man

This summer marked the passing of another T.C.A. secretary from Technology life into the treacherous sea of matrimony. Anxious peeks through the door of the T.C.A. office have revealed the fact that the former Miss Ellenor Nelson, for three years a secretary there, was not at her accustomed place. With some reluctance Wally Ross admitted that his valuable aide was gone forever. The lucky man is Mr. Everett Johnson, a graduate of Brown University. Immediately after the ceremony at St. Paul's Episcopal Church in Brookline on September 19, the couple left for their honeymoon in Bermuda. They will make their home in Newton Centre.

Miss Catherine Farrand, a graduate of the University of New Hampshire in the Class of 1930 has taken the place of Miss Nelson. She completed her course at the Chandler Secretarial School last June.

T.E.N. Opens Year With Mass Meeting In Walker Monday

Call for New Candidates Issued by Scientific Magazine of Institute

An opportunity to become acquainted with the staff and managing board of The Tech Engineering News will be extended to transfers and members of the Class of 1935 next Monday afternoon at five o'clock. At that time a smoker will be held in the West Lounge of Walker Memorial, and all those interested are cordially invited to attend.

Members of the publication staff will be present to answer questions and to describe the work of the various departments. At the close of the meeting the fall competition for places on the staff will begin with a general call for candidates, and all those present will be invited to inspect the publication offices in the basement of Walker.

T. E. N. offers opportunities for men interested in the publication of an up-to-date, scientific magazine; the two departments, editorial and business, give those connected with the magazine experience in the publication field. Articles are solicited from professional men who hold positions of responsibility, and the contacts made by staff members in this work are extremely valuable.

For those who have the urge to write, student articles, book reviews, editorials, and interviews provide interesting work. The new option offered by the English Department to freshmen interested in journalism will also be run in cooperation with T. E. N., with the result that valuable training in technical and non-technical writing can be obtained by staff members. Ability to write is not necessary for success in the competition, but training in writing will be offered to all who desire it.

Those interested in business will find that the business department offers training in office management, circulation and advertising. Social functions are held at intervals during the school term, so that the staff is not only an organized publication group, but a congenial group of fellow-workers. Advancement is based strictly upon the merit of the candidate.

MUSICAL CLUBS WILL HOLD MEETING FRIDAY

All candidates for the various musical clubs will meet at five o'clock, Friday, October 2, in Room 5-330. There will be openings in the management, as well as participation in the various clubs, which include the Glee Club, the Instrumental Club, the Banjo Club, and the Techtonians, available for new men.

Technology Smoker Date Is Announced As Friday, Oct. 9

Freshmen and Transfer Students Invited to Dinner and Entertainment

Freshmen and transfers are urged to attend the All-Technology Smoker, which will be held in the Main Dining Room of Walker Memorial at 6:30 on Friday, October 9. The tickets will be limited to the newcomers, and will be issued several days ahead in the ticket booth in the Main Lobby.

Preceding the entertainment a full-size turkey dinner will be served. Upperclassmen will absolutely be excluded from the dinner, but at seven o'clock the doors will be thrown open and the remainder of the evening's good time may be shared by the rest of the School.

Speakers Will Follow Dinner

At the conclusion of the dinner various speakers will tell of the activities of the Institute. They are being chosen from alumni who gave their time to the various activities during their stay at Technology.

While the dining room is being cleared of tables and the remains of the repast, the scene will be changed and the next performance will take place in the third floor gymnasium, with the gym, boxing and wrestling teams taking the spotlight.

Technique Cup Award

At the completion of these athletic events the main hall will again be the center of activity with the presentation of the Technique Cup, the award given to the man scoring the most points during the past track season. Last year Bror Grondal '31 was the winner, and this year's winner will be announced at a later date.

Orville B. Denison will be on hand to lead in the cheers and songs, and will entertain with his familiar song favorites that have been the delight of so many freshmen at camp.

Tech Show Announces a Mass Meeting for All Men Interested

Eats, Smokes and Entertainment Offered as Inducements for Freshmen

Members of the board of Tech Show for 1932 today announced that the annual Tech Show Smoker given for the purpose of acquainting the undergraduate body with the possibilities of Tech Show as an activity will be held a week from tonight in the North Hall of Walker Memorial.

Aside from the eats and smokes which are concomitant with anything in the way of a Technology smoker, a program is being arranged, and a member of the Technology faculty will make an address.

In Memoriam

THE TECH regrets to announce the deaths of four members of the student body during the summer vacation. Melvin J. Johnson '33, a Course VI-A student was drowned in the Saco River on June 8. Roland W. Fortier '33, former Circulation Manager of THE TECH and a member of the Cooperative Course of Electrical Engineering, drowned in a lake in Maine on July 15. John E. Thompson, a Junior in Course V, died on August 3, and George E. Lovejoy '34, while traveling in Europe, was stricken with appendicitis and passed away following an operation on August 19.

Uncle Horace Appalled At Decreasing Receipts

Bursar Horace S. Ford has at last explained the purpose served by the imposing of the five-dollar fine for late registration. He said that inasmuch as less than half of one percent of the total income of the Institute is derived from these fines, it is evident that they are not imposed for the purpose of raising money.

In order to have all the students return to the Institute within a reasonable time of the opening date, it is necessary to employ some form of persuasion, the Bursar said. It is necessary to do this, for if a considerable number of the three thousand men coming to the Institute in the fall were to struggle in several days late, the beginning of the courses would be so confused that the start of real work might be delayed a week or more.

As yet no accurate data has been compiled concerning the number of men who are reporting late this year, but the Bursar believes that it is less than usual.

CREWS START ROWING AT BOAT HOUSE TODAY

Coach Dunning Promises Three Shells for Freshman Oarsmen's Use

Technology's crew got off on a big start on its fall season at a mass meeting yesterday afternoon. Over a hundred ambitious first-year men were out to hear Coach Haines talk of this season's work. Then freshman coach, Al Dunning, added his bit.

Coach Haines set forth the advantages that crew has for the yearlings; he demonstrated the sport as a recreation for the mind, as well as the body. Speaking of Dunning, the freshman taskmaster, Coach

(Continued on Page Four)

T.C.A. Experiences Busy Season as New School Year Begins

Large Demand for Handbooks Blotters, and Second-Hand Books Reported

Activity at the T.C.A. office in the basement of Walker Memorial is again at a high pitch, with practically all departments catering to the needs of incoming men and old-timers. All but 300 of the 2,000 handbooks that were printed this year have been distributed. About 1100 of these were mailed out to freshmen and transfers; the remaining 300 may be obtained free of charge by any member of the Institute who has not received one by applying at the T.C.A. office.

This year's "Bible" is said to contain more pages and cuts than any previous one. A more flexible cover makes it easier to handle and carry around. It has been entirely revised and rewritten, and four more pages of directory have been added.

Demands for the T.C.A. blotters have been very heavy, and only 400 of the original 2500 are left. Dormitories and fraternities received theirs last week, and any other man who has not received one may obtain a blotter at the T.C.A. office.

The decrease in the enrollment at freshman Camp from 264 to 220 after a steady increase for a period of five years was said to have been brought about primarily by the increase in price from \$6 to \$7. The increase was voted last year with this view in mind as the facilities at the camp were being overtaxed by the large enrollments.

A final check-up at the camp yesterday revealed many articles left behind. They included: 8 towels, 3 bathing suits, a coat, a sweater, a raincoat, a shirt, a pencil, and one lone blue sock.

The book exchange reports a large business, with about twenty prospective customers for each book listed in the General Bulletin. It is expected that sales will top last year's figure of \$3250.

A general call for freshmen and transfers to come out for the T.C.A. has been made. Any men interested should drop into the office and talk things over with department heads.

Boy Fractures Wrist in Fall at Freshmen Camp

While trying to demonstrate his ability as a fence-walker, an ambitious freshman at the T.C.A. camp fractured his wrist in a fall. Unfortunate as this event was, it aided the freshmen in their purpose of getting acquainted with each other's characteristics, for when his right arm was put in a cast, the victim used his left with no loss of ability, showing his classmates that he was ambidextrous.

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EXTRA-CURRICULAR

FOR the interested freshman this week holds forth many opportunities to attend meetings of the various undergraduate activities, to say nothing of regular classes. These informal "get-togethers" for the purpose of bringing as much new blood as possible into the student organizations, typified in the main by free cigarettes and a surfeit of poorly delivered speeches to bait the uninitiated, are functions which recur every year.

But to waste no more space to comment upon the manner and means of drawing the new men into activities, we would make a special and direct appeal to these men. Technology is an engineering school in the strictest sense of the word. The very atmosphere reeks of oil and steam, the walls are decorated with vivid portraits of gigantic constructions, the students themselves have, in the majority, the mien of deep-thinking scientists. Without some outlet for one's surplus energy and better talents, or lacking some means of relief from such an atmosphere, the average Technology graduate would be of no more service to the industrial and business worlds than the many unfound notebooks of Leonardo da Vinci.

We point to no unfounded hypothesis when we assert that in the majority of cases, the successful Technology graduate is one who has taken part in some undergraduate activity. Employers, while interested in the scholastic standing of men applying for positions in their organizations, want a man who has proven himself able to balance his school work against some broadening experience, or some instructive side line, not necessarily related to the regular curriculum.

The obvious solution lies in the many undergraduate activities to be found at the Institute. A summary of the purposes and policies which guide the functioning of the entire group of student organizations will reveal that no matter what one's particular hobby is, in at least one of these organizations the student will find a position suited to his tastes.

To cite particular instances; in the first group is discovered the publications. Men who have any leaning at all toward passable drawing or to composing respectable poetry and "drool" should consider Voo Doo. In T. E. N. is found a publication which runs closest to the purposes behind the Institute. As an undergraduate engineering magazine it affords an opportunity to the expression of new discoveries and new developments in the many fields of science, certainly an attractive offer to the new man. *Technique* is the Institute's student yearbook, and offers positions to freshmen of literary or photographic talents. THE TECH is the student newspaper, as a staff member of which the freshman learns his Technology inside and out, along with practical experience in the summarizing of such material.

Those musically inclined should turn to the musical clubs or to Tech Show. If the stage holds special attractions, there is the Show and Drama shop. The Technology Christian Association needs no introduction. Its services are of such a varied nature that freshmen ambitions of all sorts will find opportunities there. All activities have their business side, and here is offered the opportunity to learn salesmanship and practical business policy.

Time and time again it has been broadcast that the Institute's sports "foster the Greek ideal." The athletics are not here to contribute to the good name of the school. Rather, it is for the benefit of the team members that they function. In them the healthy exercise under the surveillance of trained and experienced coaches is worth more than passing thought. Naturally, the sports also offer managerial positions.

In general, Technology's undergraduate activities foster a feeling of good will and helpful rivalry between different groups of the student body. The associations and friendships resulting from such associations, the experience in promoting some worthwhile cause, and the providing of a sound background for the wealth of knowledge which the Institute offers, makes student organizations practically indispensable in the making of well-rounded men. Watch the bulletin boards, freshmen, and plan to attend some of this week's mass meetings. Then pick an activity and stick with it. The Institute can furnish you with all the technical training you may desire, but it is for you to learn how to use this training efficiently and effectively. Get into activities!

Freshmen Are Center of Attention as Fraternity Rushing Continues

Elaborate Entertainment Makes Rushing a Holiday for Many Men

Great and marvellous are the ways of fraternity men, but it takes this particular season of the School to bring to the surface the full value of their hidden powers at thinking up new things. As the entering freshmen come to the Institute each fraternity house is straining every nerve and perhaps even every brain to think of some new and novel form of entertainment with which to beguile the innocent freshman into accepting the bid.

Not a single trick is overlooked, and every possible recreational facility is used. Even before the men leave their homes they are sent letters advising them that members of the house will be ever so glad to meet them at the station if the new man will only send the time of his arrival.

Train Meeting Tactics

This particular thing was the cause of quite a little friendly competition among a couple of houses this fall. It seems that the freshman in question had advised both houses that he would arrive on the 8.20. The first house sent a delegation to Back Bay Station, where four stalwart members boarded the train while the remainder stayed in the station and questioned every likely looking person who left the train. Those who remained aboard went through the train, asking every young man if he were going to Tech.

They located the desired man, and in the current vernacular had him "all sewed up" when they arrived at South Station. When the rushee and his escort disembarked there was the huge delegation from the second house and the reinforcements left at Back Bay who had come to the downtown station expecting their men on the train to be victorious.

Porters Search Berths

This brings to mind the story told by one old hand at the game who relates how he was to meet a boy at the train and it was so early that no one was awake. He

The SPECTATOR

Cynical Notes

In recent years freshman rules have lost much of their stringency. But there is one plausible excuse for not getting rid of them altogether, and that is freshman cynicism.

After observing Institute events for two or three (or, possibly, four) years, the returning Senior is inclined to view things cynically. That is his privilege, acquired by bitter travail and experience, and no freshman has any business usurping it.

Young high-school graduates, setting out with precocious sophistication to debunk Technology, are distinctly out of place in the order of things. This is not to say that a certain amount of debunking would not be a good thing; a Technology reformer would not have to look very far for material. But the tragedy is that the freshman debunks the wrong things. He tries to debunk the curriculum, and finds out, to his sorrow, that there is no bunk in it. On the other hand, he pays homage to the honorary societies and discovers in two or three years that they are all bunk.

Cynicism is the exclusive privilege of upperclassmen. The Spectator proposes this as a worthy addition to the list of freshman rules.

A Technical Education

The Spectator had the experience of driving five hundred miles to Boston in a sick Model T Ford. A touring car, even in her shiny days, Lizzie had never been a beautiful sight, and six years of ill treatment had left their mark on engine, body, and top. Neither time nor money were available for overhauling. Second-hand tires were used, and four tire repairs had to be made in the first one hundred miles, without the assistance of a jack. The tire problem was finally solved by buying two new ones. Two of the transmission bands were burned out, so that Lizzie could not back up, had no service brake, and could start only with difficulty.

No engineer should consider his training complete until he has owned and operated a second-hand Model T with no money available for upkeep. A degree in mechanical engineering should not be awarded until the applicant can furnish satisfactory evidence that he has taken down and rebuilt a Ford transmission. In civil, electrical, and other engineering courses, it would be sufficient to install a new set of transmission bands and grind the valves.

Institute Students Travel 6,000 Miles by Bus This Summer

Trip Covered Large Section of United States—Many Plants Visited

A six-thousand-mile camping tour which included visits to over thirty representative manufacturing plants scattered over the entire eastern half of the United States was furnished to ten undergraduates of the Institute this summer. The tour was under the auspices of the department of Business and Engineering Administration and was made available through the generosity of Mr. Alfred L. Loomis, a life member of the Corporation and president of Bonbright and Co., Inc.

The trip was made in a specially designed bus in which the students both ate and slept. A spring bed and locker was provided for each man and the bus was equipped with a kitchen containing a refrigerator and a stove. The bus was one of thirty such that were made available to college groups for industrial inspection trips through the Thorne-Loomis Foundation of New York.

Travel Widely

The Technology group that took the tour was organized under the direction of Prof. Erwin H. Schell '12, head of the department of Business and Engineering Administration.

In travelling six thousand miles the group visited manufacturing plants located as far south as Birmingham, as far north as Canada and from the Atlantic seaboard to St. Louis. Introduction and

(Continued on Page Four)

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FIRST SUPPER DANCE

Thursday
October 1

Tea Dances will
commence Saturday,
October 3.

**Start Tennis Season
With Three Varsity
Men Back on Lineup**

**Men Desiring to Enter Fall
Tournament Requested
to Sign Up**

Tennis starts off at M. I. T. this weekend with the usual fall tournament. Signups for the tournament should be made immediately on the board opposite the cashier's office.

This tournament marks the beginning of the fall tennis season; it is used as a gauge of the tennis prowess of the various players, as well as to give Coach Summers a look at the new players at the Institute.

Last year Frank Dame, captain of the tennis team last season, was victorious in the play. Some 120 men entered into the tournament last fall, necessitating seven rounds of play before the victor was decided.

All men are eligible for this first tournament, transfers and first-year men included. Varsity men of last season as well as the freshman squad of last season will participate, with these probably seeded.

Only three men are back from the varsity: Tommy Regan, Ross, and Fred Feustel. Another most promising player is Dick Hanley, a transfer last season. These men will have to form the basis of the team for the spring.

Capt. Frank Dame, Jones, and Flivver Ford are the varsity players who are off the squad. Since these represent numbers one, two, and five, respectively, there is quite a gap to be filled in the team this season.

**PRACTICE BEGINNING
FOR SOCCER TEAMS**

**Thirty Men Report from Last
Year's Team—Prospect Good**

Thirty members of last year's soccer squad and a group of new men are practicing daily on the Coop Field for the first game of the fall season, which will be with Yale University at New Haven on Saturday, October 10.

All men who are interested in the sport are urged to report at the Coop Field any day between four and six o'clock. Freshmen and others who have had some experience should report to Coach Goldie or to Capt. Nicolas Velez as soon as possible.

Although some thirty members of last year's squad are back, there is plenty of work to be done and plenty of opportunity for new men. As yet no positions have been assigned, and competition is keen for places on the team which must be picked for the game with Yale on October 10.

A newcomer in the tennis personnel this year is Dick Babcock, in the capacity of manager. Babcock last season was one of the Sophomore crew managers, and on account of his efforts, was awarded the management of tennis this season.

All the signups for the meet must be made by Saturday noon. The drawings will be posted shortly afterwards, with the playings to be started immediately after. With decent breaks from the ordinary Massachusetts weather, the entire tournament should be run off in the matter of two or three weeks.

THE TECH

Are you contented to be just an ACTIVITY man? Or do you want to DO and LEARN something WORTH WHILE that will help out old TECHNOLOGY? Come in with THE TECH!

In the business department you learn:

How to sell advertising, meet people, develop your manner of speaking. What is valuable to the advertiser, modern business statistical methods, and how to deal with advertising agencies. How to manage the circulation of a big publication. How the finances of a business organization are arranged.

In the news room you may:

Get to know everything that goes on at the Institute in activities, sports, Faculty, student life, or the administration. Write "human interest" stories and editorials. Make up an issue of the newspaper. Write "heads" for stories. Meet notables at Technology and in the business world. Develop your style of writing into something decent. Pick up the gentle art of typewriting. Learn how to manage printers — if you are good.

In either place you will:

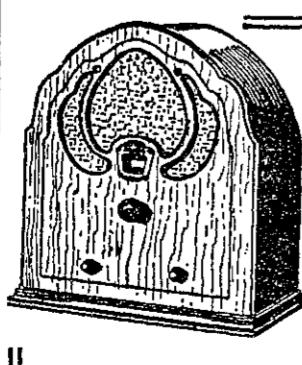
Get in with a good lively crowd that is interested in Technology. Make many lasting friendships, and participate in the several social affairs held by the staff and combined boards. Get that half of your college education that can never be had through studying, but only from participation in a worthwhile activity. Work up through an impartial point system competition to one of the most honored positions open to undergraduates — that of being one of the four Senior executives of the official student newspaper. Why honored? — Because THE TECH is the oldest, largest and most important of the student publications at the Institute. NOW THEN — START RIGHT! COME OUT TO THE MASS MEETING FRIDAY AT FIVE O'CLOCK IN WALKER MEMORIAL. Learn more about the paper amid the stench of free cigarettes — for this meeting will be a smoker!

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Schedule of Track Events for 1931-32

1931

- Oct. 10 Handicap Cross-Country Run (open to all) Tech Field
- Oct. 16 Harvard-Dartmouth-Technology C. C. Varsity and freshmen (at Harvard)
- Oct. 17 Handicap Meet
- Oct. 23 Holy Cross vs. Technology C. C. Varsity and freshmen (Franklin Park)
- Oct. 24 Handicap Meet
- Oct. 30 Field Day — Sophomore and freshmen's relay
- Oct. 31 New Hampshire vs. Technology C. C. Varsity and freshmen (Franklin Park)
- Oct. 31 Handicap Meet
- Nov. 7 Fall Inter-Class Meet
- Nov. 9 N. E. Intercollegiate Cross-Country Championship (Franklin Park)
- Nov. 14 Dorm Track Meet
- Nov. 16 Intercollegiate Cross-Country Run (New York)
- Dec. 21 Handicap Cross-Country Run
- Dec. 12 Handicap Meet on Boards
- Dec. 19 Handicap Meet on Boards

1932

- Jan. 16 Handicap Meet on Boards
- Jan. 16 Andover vs. Technology (At Andover)
- Jan. 23 Boston College Practice Meet, Varsity and freshmen
- Jan. 30 Knights of Columbus Games (Boston Garden)
- Feb. 6 Millrose Games (New York)
- Feb. 6 Handicap Meet on Boards
- Feb. 13 Boston A. A. Games (Boston Arena)
- Feb. 20 University Club Games (Boston Garden)
- Feb. 20 Dartmouth vs. Technology freshmen (Hanover)
- Feb. 27 Indoor Inter-Class Meet
- Mar. 5 I. C. A. A. A. Games (New York)
- April 2 Handicap Meet
- April 9 Spring Inter-Class Meet
- April 30 Penn. Relays or a Dual Meet
- April 30 Andover vs. freshmen (Andover)
- May 6-7 Greater Boston Meet (Harvard Stadium)
- May 14 Wesleyan vs. Technology (Connecticut)
- May 20-21 N. E. Intercollegiates

**PRESIDENT COMPTON
ADDRESSES FRESHMEN**

**Says Future of Civilization
Entrusted to Engineer**

(Continued from Page One)

of the economist, and no one, least of all the engineer himself, knows what surprises he may have in store.' Back of that statement is the idea, based on experience, that applied science is now the most potent factor in shaping our civilization.'

Following President Compton's welcome, the freshmen were addressed by Mr. Bradley Dewey '09, president of the Technology Alumni Association; Dean H. E. Lobdell '17, and Prof. F. S. Woods, chairman of the faculty.

President Compton's Address

Gentlemen: "It is my happy duty now to extend to you the official welcome of the Massachusetts Institute of Technology. As the Class of 1935 you are the sixty-seventh class to enter the Institute. Your predecessors have made this Institute the leading technological institution in America; what is more important, they have taken a remarkable part in the industrial, social and economic development of the country. We confidently expect you to become their worthy and distinguished successors. It is to prepare for this that you will be here for the next few years."

"We are just now in a time of uncertainty. Everyone is wondering what is ahead of us, and just what is desirable, how can it be attained and who will take the lead. In discussing our future outlook in a recent article in the Atlantic Monthly, the internationally-known historian of Columbia University, Prof. James T.

(Continued on Page Four)

**SCHEDULE FOR ENTIRE
TRACK SEASON GIVEN**

**Coaches Hedlund and Bowie
Ready for New Season—
All Men Urged Out**

Coach Oscar Hedlund announced last night the track and cross-country schedules, which give the approximate dates for all events and the exact date for most of the meets during the coming year. The complete schedule is printed in another part of this issue of THE TECH. At the same time he issued an emphatic call to all freshmen and upperclassmen to come out at once, to get into condition as early as possible.

Freshmen should report immediately for training for the Field Day relay team. This team consists of twelve men, each of whom runs a 220-yard dash. The competition for this team should prove to be strong, according to the indications at freshman camp, and it will have to be, to beat the strong '34 Class team.

A large number of the varsity men have already made their appearance at the track house, and are training now, in anticipation of the strenuous schedule which begins with cross-country runs on the tenth of October. The first meet is an All-Tech

**A. I. E. E. OPENS DRIVE
FOR NEW MEMBERSHIP**

Members of all the branches of the Electrical Engineering Course and those registered in Courses XV-Ib and XIV are invited to join the Student Branch of the American Institute of Electrical Engineers. The memberships are one dollar, and may be obtained from any of the four officers: John C. Gibson '32, chairman; Elwood W. Schafer '32, vice-chairman; Thomas R. Smith '32, secretary, and Glenn A. Lowery '32, treasurer.

During the year dinners are given by various manufacturing concerns and speakers are sent to describe their work, suggesting to the freshmen and Sophomores the possibilities in various industries and giving them a better opportunity of choosing their courses wisely. Another feature of the program of the Society is the presenting of student papers at dinner meetings later in the year. The aim of the Society is to present those features of the electrical industry which are impossible to include in the curriculum.

affair on Tech Field, open to every student. The first Intercollegiate Run takes place at Harvard on October 16, with both freshman and varsity teams competing.

**REGISTRATION DROPS
AFTER STEADY RISE**

Registration at the Institute at the end of the first day shows a decrease of 112 students from that of the same time last year. One hundred and six of this difference is in the freshman class, which has 630 on roll compared with 736 last year, or a decrease of 106.

The current depression is said to be the cause of the decrease, as Technology's registration has been constantly climbing since just after the war.



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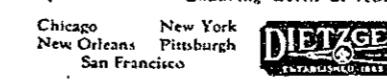
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CALENDAR

Wednesday, September 28

First track practice for all men.
5.00 — Candidates for freshman crew managers meet at the boat house.

Thursday, October 1

5.00 — Institute Committee meeting, West Lounge, Walker Memorial.

Friday, October 2

5.00 — THE TECH MASS MEETING, West Lounge, Walker Memorial.

5.00 — Combined Musical Clubs mass meeting, Room 5-330.

OFFICIAL NOTICE

General Study 42, Modern European Literature, Omitted by Error

General Study 42, Modern European Literature, omitted by error from First Term Class Schedules, will be given Wednesdays and Fridays at 1.00 p.m., in Room 2-246. The instructor will be Prof. Robert E. Rogers.

SCABBARD AND BLADE

The first meeting of Scabbard and Blade, honorary military society, has been called by Pres. James J. Robson '32, for this afternoon at five o'clock in Room 3-307. All members are urged to attend. Loans and Scholarships

PRESIDENT COMPTON ADDRESSES FRESHMEN

Says Future of Civilization Entrusted to Engineer

(Continued from Page Three)

Shotwell, makes this significant statement: "... but, whatever theory one may adopt as to the ultimate outcome the pathway to the future is in the hands of the engineer, not of the economist, and no one, least of all the engineer himself, knows what surprises he may have in store."

Science is Potent Factor

"Back of the statement is the idea, based on experience, that applied science is now the most potent factor in shaping our civilization. On it depend our means of communication, exchange of ideas and of goods, our modern houses and physical environment, our sanitation and agencies for public health, our modern methods of production. A single scientific discovery or invention, like the printing press, the electric generator, the radio tube, the automobile, may largely transform our methods of living. It is you men who will take the lead in such things in the near future."

"But consider for a moment the significance of such developments. While these factors add to our comfort, interest and enjoyment of life, their chief importance lies in the fact that they create opportunities for better living. Let me illustrate what I mean:

Greater Happiness

"Does this technological age bring greater human happiness than, for example, the Periclean Age of the ancient Greeks? Now man's enjoyment of Periclean Greece would depend on his political status, on whether he was a member of the small aristocratic class that had leisure and freedom for thought based upon the productive power of thousands of human slaves, or whether he was one of those

CREWS START ROWING AT BOATHOUSE TODAY

Dunning Promises Three Shells For Freshmen Use

(Continued from Page One)

Haines told the freshmen of their fortune in having as their director such a coach. He advised the men to work for positions in the three boats that Dunning plans to fill. He also stressed the advantage of the first-year men getting out in the beginning of the year in order to have the training for following years.

Capt. John Lawrence, the varsity heavy leader, made various remarks on the subject of sportsmanship. He spoke of the comradeship that men of the various boats formed. In addition he stressed the spirit of competition that entered into the forming of the boats, besides that resulting from the boats themselves.

Coach Dunning dropped in to give a short informal talk on the yearling crew. He stressed the fact that all of the first-year men had an equal chance on the new crew. The amount of work that a man puts out is the main classification as to how far he will get in racing.

Fred Walsh, captain of the 150-pound crew, talked a bit of the past history of the light crew. He spoke of the memorable victory of the fifty crew over Princeton a few years back, in which the Technology crew set a record for the Henley distance unequalled to this day.

Official practice starts this afternoon at five o'clock at the boat house; both coaches will be out to give all the men their preliminary instruction. The first few days the freshmen will be shown the stroke on the machines and after that they will get out into the river.

Another feature of the mass meeting was a film showing some of the practice rowing on the Charles. Coach Haines talked while the film was being shown to point out the merits and faults of the different men's styles of rowing.

One loss to the yearling crew is the loss of Coach Sutherland. Sutherland was a graduate student taking work last year; he helped out Dunning on the first-year crew.

Light men are needed at the boat house for coxswains for the new crews. Their weight should be under 120 pounds. Another necessity is for crew managers. Ordinarily there are eight or ten men out for these positions.

slaves. But in this day and generation, machinery is the slave of all men, and to an unprecedented extent all men may have opportunities for education, recreation, and the nobler things of life because machinery is doing most of the drudgery for them. If men had to supply the energy that America uses from water power, coal, and gasoline, we should need the exhausting labor of five thousand million slaves! Such is the debt of modern man to technology. Applied science is not an end in itself, but it is the most powerful means ever discovered for supplying the opportunity to secure the finest things of life.

"But there is one other implication in Professor Shotwell's statement. If 'the pathway to the future is in the hands of the engineer,' then he has a very grave responsibility! It is not enough that he should supply technical service or produce new implements to man's needs or desires; he must take a leading part in seeing to it that the new world which he is creating is a good sort of a place to live in. He must realize the social responsibilities of his profession.

"Whether he is a practicing engineer, a research worker, a teacher, an architect or a business man, his position of leadership in the economic life of the country carries with it the responsibility to take a leading part in meeting its social problems. Questions of conditions of labor, responsibility for workmen's employment, pension, suitable wage, etc., questions of use of public funds (which exist largely because of the engineer), questions of public support of education and of research (since funds and time for them exist largely because of the engineer), questions of international policy (since he is largely respon-

NEW PHOTO-ELECTRIC INTEGRATOR AND THE MAN WHO DEVELOPED IT



The Photo-Electric Integrator, a new type of calculating machine developed by Dr. Truman S. Gray in the department of Electrical Engineering at the Institute, turns mathematical problems into light and analyzes the light to find the answer. Dr. Gray is shown observing the solution of a problem, the answer of which is automatically drawn on a moving table in the form of a curve or graph. The heart of the new calculating machine is the versatile photo-electric cell, which is located in the compartment at the lower right of the picture. Here the "electric eye" scrutinizes a beam of light that varies in intensity according to the mathematical statement of the problem. Modification of the light beam is accomplished by passing it through screens cut in the shape of graphs which represent the problem.

STUDENTS' JOURNEY COVERS 6,000 MILES

Course XV Men Visit Plants Throughout Country

(Continued from Page Two)

access to over thirty plants and visits to many historical points was included in the itinerary.

Do Own Driving

Starting at Cambridge, the ten students, who did their own driving, toured Massachusetts, Rhode Island and Connecticut. They then visited New Jersey where they inspected, among other plants, the Squibb Chemical Company and the Radio Corporation of America.

In Delaware the only place of importance seen was the Conowingo Power Plant. The trip continued through Maryland, Virginia, North and South Carolina, Tennessee, Georgia, and Alabama. Then turning north, the bus was driven through Indiana, Missouri, Illinois and other Mid-Western States. Finally, turning east, New York, Canada, and Washington, D. C. were covered.

Widely-Known Plants Inspected

Many of the plants at which stops were

sible for international contact and communication, all these questions must be advantageously handled, else the power of the engineer will have rendered an ill service to mankind.

In concluding, let me ask you, individually and collectively, to keep continually in mind the purpose for which you are here — the purpose to become trained, effective men in your professions and to use your training in the best service of society. If your life and work here are conducted against this background, I think no further advice to you will be necessary.

"In conclusion, let me assure you of the whole-hearted interest of Corporation, faculty and alumni in your happiness and success. We will do everything in our power to make your course here one which will attain the objectives which I have indicated."



made are internationally known. Among the more important ones are the American Smelting and Refining Company in Maryland, the Camel plants in North Carolina, Anheuser Busch Company in St. Louis, the Caterpillar Tractor Company in Illinois, the Goodyear Rubber Company plants in Akron, the Eastman Kodak, Bausch and Lomb, and Shredded Wheat Companies in New York, and other places of interest.

The officials of the plants visited were uniformly courteous and helpful to the students, often detailing important men to conduct the visitors through the plant.

Camping Sites Often Free

Wherever possible the bus was stopped at a camping place which offered easy access to a nearby amusement or beach resort. In this way the men had plenty of opportunity to relax on the trip. In all, the group spent only \$4.50 for camping sites, and of that sum, \$3 was spent in Canada.

This opportunity to become familiar with the manufacturing activities of these areas was made possible at a cost of approximately \$18 for each participant, the Foundation contributing part of the expenses. Of the eighteen dollars, fourteen went for a uniform which each member wore. Living expenses for each person during the six weeks was about \$3.80 per man.

The Technology men who were so fortunate as to be included in the group were most enthusiastic and grateful for this opportunity to gain first-hand insight into the industrial activities of this large section of the United States.

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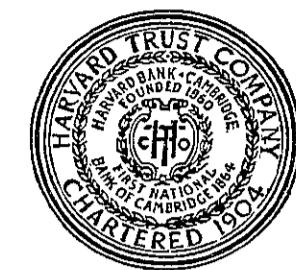
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